Lista publikacji pracowników Instytutu Nauk Chemicznych w 2024 r.:

Artykuły w czasopismach naukowych

1. M. H. Dalsaniya, D. Upadhyay, K. Jan Kurzydłowski, **D. Kurzydłowski**, High-pressure stabilization of open–shell bromine fluorides. Phys. Chem. Chem. Phys. 26, 2024, 1762–1769 DOI: 10.1039/D3CP05020C MNiSW: 100
2. D. Upadhyay, S. B. Pillai, J. Drapała, Z. Mazej, **D. Kurzydłowski**, A high-pressure phase of Na2CuF4 with eight-coordinated Cu2+ – a low-pressure analogue of Mg2SiO4. Inorg. Chem. Front. 11, 2024, 1882–1889 DOI: 10.1039/D3QI02671J MNiSW: 140
3. S. B. Pillai, A. Dziarnowska, Z. Mazej, **D. Kurzydłowski**, Raman spectroscopic insights into the transition to the post-post-perovskite phase in NaZnF3. J. Phys. Chem. Solids 190, 2024, 111998 DOI: 10.1016/j.jpcs.2024.111998 MNiSW: 70
4. S. B. Pillai, D. Upadhyay, J. Drapała, Z. Mazej, **D. Kurzydłowski**, Magnetostructural Correlations in a Layered Perovskite: K 2 CuF 4 at Large Compression. J. Phys. Chem. C 128, 2024, 17747–17755 DOI: 10.1021/acs.jpcc.4c05118 MNiSW: 140
5. P. Patel, S. Patel, M. H. Dalsaniya, **D. Kurzydłowski**, K. J. Kurzydłowski, P. K. Jha, Exploration of Si–N compounds as high energy density materials. Phys. Chem. Chem. Phys. 26, 2024, 25089–25097 DOI: 10.1039/D4CP02469A MNiSW: 100
6. M. H. Dalsaniya, D. Upadhyay, P. Patel, P. K. Jha, K. J. Kurzydłowski, **D. Kurzydłowski**, Pressure-Dependent Thermal and Mechanical Behaviour of a Molecular Crystal of Bromine. Molecules 29, 2024, 4744 DOI: 10.3390/molecules29194744 MNiSW: 140
7. R. Ganczarczyk, **R. Rybakiewicz-Sekita**, M. Zawadzka, P. Pander, P. Ledwon, D. Nastula, S. Pluczyk-Małek, "The Impact of Structural Modification on Electrochromic and Electroluminescent Properties of D-A-D Benzothiadiazole Derivatives with a Fluorene Linker and (Bi)Thiophene Units", Journal of Materials Chemistry C, **2024**, DOI: https://doi.org/10.1039/D4TC01583E IF = 8,067; MNiSW = 140 pkt
8. Banasiewicz M., Deperasinska I., Gawryś P., **Suwińska K.,** Kozankiewicz B. – 2,3-Dichloroanthracene crystal, a new rigid matrix for single molecule optical investigations. ChemPhysChem (2024) e202300668, DOI: 10.1002/cphc.202300668, (IF = 3.520 MNiSW = 100 pkt)
9. Pietrzykowski A., Justyniak I., Skrok T., Szejko V., Radzymiński T., **Suwińska K.,** Lewiński J. – A new structural motif in aggregation of methylalumoxanes: non-hydrolytic route by the alkylation of dicarboxylic acids. Chem. - Eur. J. (2024) e202402021, DOI:10.1002/chem.20240202, (IF = 4.353, MNSW = 140 pkt)
10. Zieba A., Kozik V., **Suwinska K.**, Kawulok A., Pluta T., Jampilek J., Bak A. – 5-Methyl-9-(trifluoromethyl)-12H-quino[3,4-b][1,4]benzothiazinium chloride as anticancer

agent. Molecules (2024) **29**, 4337–4350, DOI:10.3390/molecules29184337, (IF = 4.200, MNSW = 140 pkt)

11. Kamecka A., Kapturkiewicz A., Wójcik P., **Suwinska K.,** Masternak J., Barbarczyk N. – Synthesis, spectroscopic and structural characterization of cyclometallated rhodium(iii) complexes with 1-phenyl-1H-pyrazole and α-diimines ligands, comparison with their iridium(iii) analogues. Struct. Chem. (2024). DOI: 10.1007/s11224-024-02439-6. (IF = 2.1, MNSW = 70 pkt)
12. B. Macherzyński, E. Popowska-Nowak, M. Włodarczyk-Makuła, B. Bień, **M. Wszelaka-Rylik**, Intensification of energy production in the anaerobic digestion process of sewage sludge using enzymatic disintegration, Energies (2025) *18*(1), 11; https://doi.org/10.3390/en18010011 (IF = 3.0, MNSW = 140 pkt)
13. Potopnyk, M. A.; Mech-Piskorz, J.; Angulo, G.; **Ceborska, M.,** Luboradzki, R.; Andresen, E. Gajek, A.; Wisniewska, A.; Resch-Genger, U. Sterically Tuned Ortho-Phenylene-Linked Donor–Acceptor Benzothiazole-Based Boron Difluoride Complexes as Thermally-Activated Delayed Fluorescence Emitters for Organic Light-Emitting Diodes**.** ACS Appl. Mater. Interfaces, 2024, 16, 60633-60647. https://pubs.acs.org/doi/10.1021/acsami.4c12662 (200 pkt, IF = 9,5)
14. **Ceborska, M**.; Siklitskaya, A.; Kowalska, A.A.; Kędra, K. Synergetic Effect of β-Cyclodextrin and Its Simple Carbohydrate Substituents on Complexation of Folic Acid and Its Structural Analog Methotrexate. Pharmaceutics, 2024, 16, 1161. https://doi.org/10.3390/pharmaceutics16091161 (100 pkt, IF = 4,9)
15. Potopnyk, M. A.; Mech-Piskorz, J.; Angulo, G.; **Ceborska, M.**, Luboradzki, R.; Andresen, E. Gajek, A.; Wisniewska, A.; Resch-Genger, U. Aggregation/Crystallization-Induced Emission in Naphthyridine-Based Carbazolyl-Modified Donor-Acceptor Boron Dyes Tunable by Fluorine Atoms. Chem. Eur. J. 2024, 30, e202400004. https://doi.org/10.1002/chem.202400004 (140 pkt, IF = 4,3)
16. **I. Flis-Kabulska**, Arkadiusz Gajek, Black etched electroless Ni-P coatings for enhanced efficiency towards alkaline water splitting, Materials Chemist ry and Physics **2024** 328(1) 129955, https://doi.org/10.1016/j.matchemphys.2024.129955 (70 pkt, IF = 4.3)
17. **Dabrowski-Tumanski**, Goundaroulis, Stasiak, Rawdon, Sułkowska - Theta-curves in proteins, Protein Science, 33 (9) e5133 - artykuł okładkowy; doi 10.1002/pro.5133, (100 pkt, IF 4,5)
18. **B. Golec**, N. Dutkiewicz, J. Ostapko, J. Waluk, A. Gorski, Photoinduced removal of molecular oxygen from solutions, *Phys. Chem. Chem. Phys*., 26, **2024**, 29496, DOI: 10.1039/d4cp03788j, (100 pkt, IF 2.9)
19. Bańkowska, D.; Skotak, M.; Juchnikowska, K.; Ostapko, J.; Waluk, J.; **Nawara, K.** Hemiporphycene: A pH-tunable specific probe for Zn^{2+} and Cu^{2+}*, Spectrochim Acta A*

Mol Biomol Spectrosc. 2025, Epub **2024**, doi: 10.1016/j.saa.2024.124999. (140 pkt, IF: 4.3)

20. Stępień J., **Stafiej J.,** Potentiostatic oscillations of current and surface structure in a 3D cellular automaton model of metal passivation, *Surfaces and Interfaces* 48 **2024** 104270, DOI: 10.1016/j.surfin.2024.104270 (70 pkt, IF 5,7)
21. **Waluk J.,** Nuclear Quantum Effects in Proton or Hydrogen Transfer, *J. Phys. Chem*. *Lett* **2024**, *15*, 598-607, DOI: https://doi.org/10.1021/acs.jpclett.3c03368. (IF: 4.9 MNSzW:200)
22. Orzanowska, G.; Ryppa, C.; Senge, M. O.; **Waluk, J.,** Fine-tuning of radiative properties by "mild" substituents: In search for a perfectly soft chromophore, *Phys. Chem. Chem. Phys.* **2024**, *26*, 17944, DOI: 10.1039/D4CP01502A. (IF: 2.9 MNSzW:100)

Artykuły w materiałach konferencyjnych:

17. Powalski, Klockiewicz, Jaśkowski, Topolski, **Dąbrowski-Tumański**, Wiśniewski, Kuciński, Miłoś, Plewczyńska - RapidDock: Unlocking Proteome-scale Molecular Docking, ArXiv 2024.00004 - Artykuł wysłany na konferencję ICLR
18. **Konieczny R**., XIII th International Scientific and Practical Internet-Conference. Efficiency of agricultural enterprises. 4-5.06.2024, Lviv National Environmental University, Dubliany, Ukraine, Issues 2024: Efficiency of the bioeconomic model of development. Conference materials: ***Konieczny R.,*** 2024. Determination of oxygen mass and economic benefits in the aspect of a water aerator with water drive, 3 pages
19. **Konieczny R**., XXV Міжнародний Науково-Практичний Форум: Теорія і практика розвитку агропромислового комплексу та сільських територій. 2-4.10.2024, Міністерство Освіти і Науки України Львівський Національний Університет Природокористування, Дубляни, Україна. Materiały konferencyjne: ***Konieczny R.***, 2024. Koncepcja rewitalizacji wód przydennych z zastosowaniem zastawkowego aeratora wody, 3 str.